

# Integrating Transportation, Energy and Environment: The New York State Energy Plan

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# NY State Energy Plan

- Blueprint to inform energy decision making
- Provides broad statewide energy policy direction
- Considers:
  - transportation
  - environment
  - energy
  - economic development

# NY State Energy Plan

- ~ 65 recommendations
- 30 directly or indirectly related to transportation

# Recommendations

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- Commit to a statewide goal of reducing greenhouse gas emissions 5% below 1990 levels by 2010, and 10% below 1990 levels by 2020
- The State adopts the goal of reducing statewide energy use in 2010 to a level that is 25% below 1990 energy use per unit of Gross State Product. In addition, the State adopts the goal of increasing the share of renewable energy as a percentage of primary energy use 50% by 2020...

# Recommendations

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- Redirect transportation funding toward energy-efficient transportation alternatives, including public transportation, walking, and bicycling, and provide incentives to encourage greater use of related alternatives that improve transportation efficiency
- Target open space funding to prevent suburban sprawl, promote Quality Communities, reduce vehicle miles traveled, and support, adopt, and enhance transportation measures that reduce energy use and pollutant emissions

# Recommendations

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- Support, adopt, and enhance transportation measures that reduce energy use and pollutant emissions, such as Commuter Choice, Ozone Action Days, diesel vehicle retrofits, improved traffic signal coordination with light emitting diode replacement technology, transportation system management, and other similar actions

# Recommendations

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- Working with regional and local planning organizations, analyze and quantify the energy use and air pollution emissions expected to result from transportation plans and programs
- Include in the State transportation planning and State Environmental Quality Review Act (SEQRA) related processes, consideration of CO<sub>2</sub> production and mitigation strategies, as appropriate

# Implementation of Recommendations

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- Role of transportation to improve air quality & energy efficiency
- Document and keep track of what's already being done
  - e.g., Flex \$\$\$
- Analyze and emphasize in TIP & Plan
  - analyze energy, CO<sub>2</sub> , air quality
  - consider energy efficiency, emissions
  - consider modifying Program



# Implementation of Recommendations

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- Select alternatives that meet goals at EIS / project level
  - analyze alternatives for energy consumption, air quality, CO<sub>2</sub>
  - energy consumption, CO<sub>2</sub> , air quality are criteria for selection
  - don't always select most energy intensive alternative
- Document decision making process

# Implementation of Recommendations

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- Consistent approach with air quality, CO<sub>2</sub> and energy analysis
- Consistent approach with conformity determinations in non-attainment areas
- Identification of projects
  - Relationship to NYS conformity regulation
  - Regionally significant transportation projects

# Implementation of Recommendations

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## Analytical Process

- Transportation demand model in MPO areas
- Project-by-project in rural areas
- Combination for statewide Plan/TIP
- Build/No-Build scenario approach
- Show analysis results
- Consider mitigation, if needed